INCH POUND
MIL-PRF-3098/68E
27 August 1997
SUPERSEDING
MIL-C-3098/68D
28 June 1995

PERFORMANCE SPECIFICATION SHEET

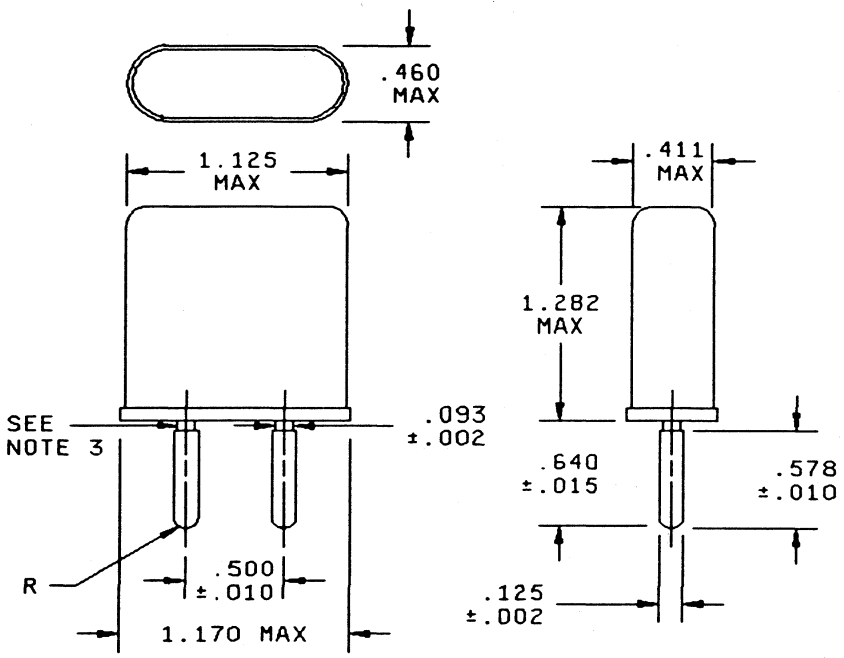
CRYSTAL UNIT, QUARTZ, CR91/U

This specification is approved for use by all Departments and Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification and MIL-PRF-3098.

Pertinent characteristics: 9.5 MHz to 12.5 MHz; fundamental; noncontrolled; antiresonance.

Inches	mm
.002	.05
.010	.25
.015	.38
.093	2.36
.125	3.18
.411	10.44
.460	11.68
.500	12.70
.578	14.68
.640	16.26
1.125	28.58
1.170	29.72
1.282	32.56



NOTES:
1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Pin undercut may be omitted.
4. Marking to be in accordance with MIL-PRF-3098.

FIGURE 1. Crystal unit - CR91/U.

REQUIREMENTS:

Dimensions, marking, and configuration: See figure 1.

Frequency range: 9.5 MHz to 12.5 MHz, inclusive. 1/

Mode of oscillation: Fundamental.

Rated drive level: 1.0 mW, maximum.

Operating temperature range (noncontrolled): -55°C to +90°C, inclusive.

Frequency tolerance (operating temperature range): ±50 parts per million (ppm).

Equivalent resistance: 25 ohms, maximum.

Antiresonance, load capacitance: 55.0 pF ±0.5 pF.

Shock (specified pulse):

Frequency change permitted: ±5 ppm.

Equivalent resistance change permitted: ±10 percent.

Vibration: Method 201 of MIL-STD-202.

Frequency change permitted: ±5 ppm.

Equivalent resistance change permitted: ±10 percent.

Frequency and equivalent resistance:

Frequency change permitted: ±5 ppm.

Equivalent resistance change permitted: ±10 percent.

Aging:

Frequency change permitted: ±5 ppm.

Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extent of the changes.

1/ In using equipment, these frequencies are multiplied to the 12th harmonic which is also known as aircraft frequency.

Custodians:
Army - CR
Navy - EC
Air force - 85

Review activities:
Army - AR, MI
Navy - AS, MC, SH
Air Force - 17, 19

Preparing activity:
Army - CR

Agent:
DLA - CC

(Project 5955-0697-41)